SDS NUMBER: 1000299660-15-LPI SDS REVISIONS: FORMAT DATE OF ISSUE: 04/17/15

KOOLDOWN/4® SUPERSEDES: 03/20/13

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: KOOLDOWN/4®

1.2 RECOMMENDED USE: AGRICULTURAL MINERAL

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24-Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye IrritationCategory 2BH320Skin IrritationCategory 2H315

#### 2.2 Label elements



Signal word: WARNING

Hazard Statement: H320 – Causes eye irritation.

H315 - Causes skin irritation.

Precautionary

Statement: P261 – Avoid breathing dust / fume / gas / mist / vapors / spray

P273 - Avoid release to the environment

(Prevention): P280 - Wear protective gloves and eye / face protection Precautionary P337+P313 - If eye irritation persists: get medical attention

Statement: P305+P351+P338 – IF IN EYES: Rinse with water for 15 to 20 minutes. Remove contact lenses, if present, and

(Response): continue rinsing eyes.

P302+P352 - IF ON SKIN: Wash with plenty of water for 15 to 20 minutes

Precautionary

Statement:

(General): P101+P102+P103 – If medical advice is needed, have product container or label available. Keep out of reach of children.

Read label before use

# 2.3 Other hazards

None known

### **KEEP OUT OF REACH OF CHILDREN -**

Appearance and odor: Greenish-brown liquid with pungent odor.

**Potential Health effects** 

**Routes of exposure** Eye contact, skin contact, inhalation. Avoid breathing dusts.

Eyes Causes eye irritation.
Skin Can cause skin irritation.

**Inhalation** May be irritating to respiratory system.

**Ingestion** May be irritating to mouth, throat, and stomach.

Target organs Eyes. Skin. Inhalation.

Signs and symptoms May be harmful if swallowed, absorbed through skin or inhaled.

Potential environmental effects This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large

or frequent spills can have harmful or damaging effect on the environment.

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### **COMPOSITION, INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Classification according to 29 CFR 1910.1200

3.2 Mixtures

Chemical Name: CAS No. Classification Concentration

Eye Irrit. 2B; H320 [%] Sulfate of Potash 7778-80-5 Skin Irrit.: 2 H315 ~4.40 Ammonium Nitrate 6484-52-2 ~1.48 Water 7732-18-5 Balance

### **FIRST AID MEASURES**

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

## 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eye irritation.

# 4.3 Immediate Medical Attention and Special Treatment

Treat symptomatically. Symptoms may be delayed. Treatment:

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565 Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the

patient.

#### FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Foam, carbon dioxide (CO<sub>2</sub>), dry powder, water spray. Do not use water jet as this will spread the fire.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, oxides of carbon and silicon dioxide can be released.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

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#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors, dusts and spray mist and contact with skin and eyes. Ensure adequate

ventilation. Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS** 

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

# 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing

immediately if fertilizer gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as

possible, wash thoroughly and change into clean clothing.

**7.2 CONDITIONS FOR SAFE STORAGE:** Requirements for Storage Areas and Containers:

quirements for Storage Areas and Containers: Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products,

and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or

disposal.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 CONTROL PARAMETERS:

### **OCCUPATIONAL EXPOSURE LIMITS**

# U.S. Workplace Exposure Level (AIHA) WEELs

Components Type Value

No data available

### U.S. Workplace Exposure Level (OSHA) PELs

Components Type Value

No data available

### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components Value Specimen

No listings

# 8.2 EXPOSURE CONTROLS:

# **Engineering Measures**

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

# **Individual Protection Measures:**

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove

contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware

that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as

MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory

protection if exposure concentrations are unknown.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1** APPEARANCE : Liquid ODOR: Pungent.

ODOR THRESHOLD: No data available.
COLOR: Greenish-brown.
pH: 7.0 – 8.0.

MELTING POINT / FREEZING POINT: No data available

BOILING POINT: >200°F (>93°C) FLASH POINT: Not flammable FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Soluble

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available
VISCOSITY, dynamic: No data available
SPECIFIC GRAVITY (Water = 1): 1.08 g/ml

BULK DENSITY: 9.00 lbs./gal. / 1.08 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

#### 10. STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Stable

### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS No reactions known under normal use conditions. Will not polymerize.

# 10.4 CONDITIONS TO AVOID

None known.

### 10.5 INCOMPATIBILE MATERIALS

None known.

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Can include Ammonia, Nitric Acid, Nitrogen Dioxide and Nitric Oxide at high temperatures (approximately 575°F) and Nitric Acid at low temperatures.

## 11. TOXICOLOGICAL INFORMATION

# 11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact. **LC**<sub>50</sub> (rat): No data available

LD<sub>50</sub> Oral (rat): 4,820 mg/kg (Ammonium Nitrate); 6,600 mg/kg (Sulfate of Potash)

LD<sub>50</sub> Dermal (rat): No data available.

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): No data available

Eye Irritation (rabbit): No data available

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer Carcinogenicity: No data available Germ Cell Mutagenicity: No data available

Interactive Effects: None known

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# 12. ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

Ecotoxicological Data

Components	Species	Test Results
Sulfate of Potash	Lepomis macrochirus	653 mg/L, 96-hour LC <sub>50</sub>
	Daphnia magna	890 mg/l, 48-hour EC <sub>50</sub>
Ammonium Nitrate	Cyprinus carpio	2.30 - 3.44  mg/l, 96-hour LC <sub>50</sub> (unionized NH <sub>3</sub> /L)
	Chinook salmon, rainbow trout, bluegill	420 – 1360 mg/l, 96-hour LC <sub>50</sub> (unionized NO₃/L)
	Daphnia magna	555 mg/L, 48-hour EC <sub>50</sub>

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

# 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

# 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Readily biodegradable.

#### 12.4 MOBILITY IN SOIL

No data available.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

# 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Do not reuse container. Plastic: Triple rinse (or equivalent), adding rinse water to spray tank, then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food, or feed by storage or disposal. Do not contaminate water, food or feed by storage or disposal.

### 14. TRANSPORT INFORMATION

## 14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6; CLASS 70)

# 15. REGULATORY INFORMATION

# 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

Health 0 Least Health Flammability Flammability 0 Slight 0 Moderate Instability 2 0 Reactivity 3 В PPE High

4 Severe

# SAFETY DATA SHEET

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**SARA Hazard Notification/Reporting** 

Sudden Release of Pressure SARA Title III Hazard Category: Immediate Fire Ν Delayed Reactive

Reportable Quantity (RQ) under U.S. CERCLA: No listings

SARA, Title III, Section 313: Ammonium Nitrate (CAS: 6484-52-2) [contains aqueous ammonia (CAS: 1336-21-6) and water dissociable nitrate compounds]

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive

# 16. OTHER INFORMATION

SDS STATUS: All sections reviewed; change in format PREPARED BY: Registrations and Regulatory Affairs

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REVIEWED BY: Environmental Health and Safety

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